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**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V**

Date: July 12, 1994

Subject: QAPP Amendment for Additional NAPL and Soil Sampling
Lenz Oil site, Lemont, Illinois

From: Mary Tierney, RPM *MT*

EPA Region 5 Records Ctr.



207029

To: Lenz Oil Site File

This memo will serve as a QAPP Amendment to document additional sampling of light non-aqueous phase liquids (NAPLs) and soils to be conducted at the Lenz Oil site in Lemont, Illinois. The additional sampling will supplement sampling done as part of the Lenz Oil remedial investigation and will provide data necessary for completion of the feasibility study report for the site. A Lenz Oil RI/FS QAPP Addendum prepared by the Settling Respondents for the site was approved by U.S. EPA on January 22, 1992. Please refer to that document for specific QAPP details.

The additional sampling which this amendment addresses is scheduled to begin on July 25, 1994, and involves the following modifications to the January 1992 QAPP Addendum.

- * Nine to thirteen soil samples and four to six NAPL samples will be collected from the site;
- * Soil samples will be collected from locations P-1 and P-13 through P-17, as shown on the attached map, and at up to three additional borings based on presence of NAPL at piezometer locations P-2 through P-12, and P-22. Soil samples may also be collected from piezometer locations P-18 through P-21 based on field screening and observed soil conditions;
- * NAPL samples will be collected from piezometer borings where NAPL is encountered. Based on thickness and distribution of the NAPL, a sufficient number of samples will be collected to adequately characterize the NAPL at the site. It is anticipated that five or less NAPL samples will be collected;
- * Soil sample collection procedures will be similar to the procedures specified in the January 1992 QAPP Addendum with the exception that 2-inch diameter by 2-foot long split spoons will be used to collect the samples instead of the 5-foot long continuous CME samples used during previous phases of the RI;

* Analyses to be performed on the soil and NAPL samples will be the same as those specified in the approved January 1992 QAPP Addendum with the exception that the NAPL samples will also undergo gas chromatography fingerprinting analysis. Although methodology for this analysis is not specified in the January 1992 QAPP Addendum, because the results of the fingerprinting will be used only to determine whether different types of NAPLs are present at the site, the method does not require strict QA/QC procedures; and

* All soil and NAPL samples will be analyzed by Rocky Mountain Analytical Laboratory. Environmental Standards, Inc. will validate the data from all samples.

The samples will be analyzed for the following parameters:

Soil samples: CLP RAS analysis of TAL metals and cyanide; and CLP RAS analysis TCL volatiles, semivolatiles, and pesticide/PCBs

NAPL samples: CLP RAS analysis of TAL metals and cyanide; CLP RAS analysis of TCL volatiles, semivolatiles, and pesticide/PCBs; toxicity characteristic leaching procedure (TCLP) organics and inorganics; specific gravity; gas chromatography fingerprinting; and viscosity

Procedures for collecting the NAPL samples will be the same as those specified in the approved January 1992 QAPP Addendum.

cc: George Schupp, QAS
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